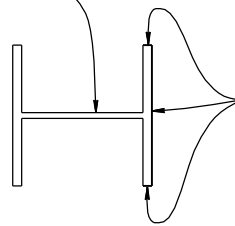


* To be determined by Design Engineer

TYPICAL SECTION

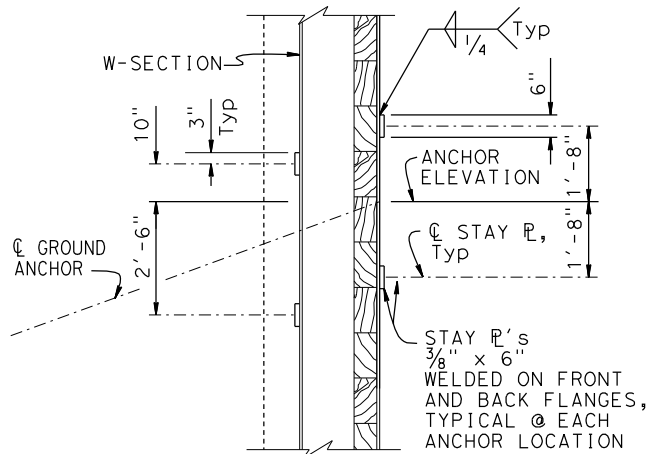
NO SCALE

UNDERCOAT ON ALL
PILE SURFACES



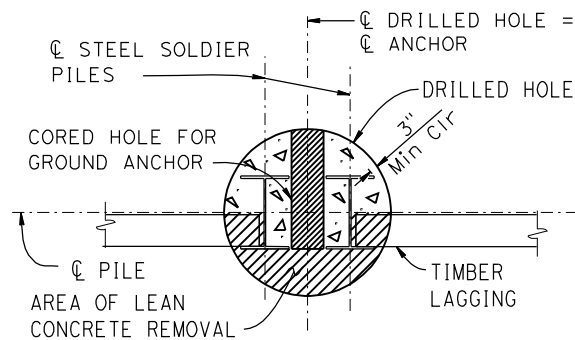
LIMITS OF CLEAN & PAINT STEEL SOLDIER PILE

NO SCALE



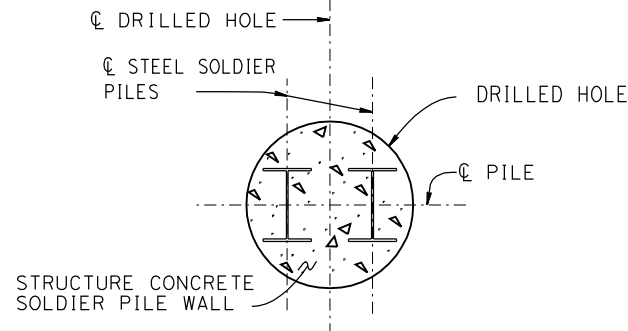
SECTION C-C STAY PLATE DETAILS

NO SCALE



SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

GENERAL NOTES

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.
- LIVE LOAD: 240 psf equivalent to 2 feet soil weight
- SOIL PARAMETERS: (For determination of Design Lateral Earth Pressures)
Backfill soil weight = _____ lb/ft³
Friction Angle = _____ °
Active Pressure coefficient, Ka = _____
Bedrock Unit Weight = _____ lb/ft³
Slope Angle = _____ °
- STRUCTURAL STEEL: ASTM A709/A709M Grade 50 or 50W
fy = 50 ksi
- REINFORCED CONCRETE: f'c = 4000 psi
fy = 60 ksi
- STRUCTURAL TIMBER: Treated Douglas Fir, Grade No.1 or better.
Timber to be full sawn.
- PRESTRESSING STEEL (GROUND ANCHORS): FDL= Factored Design Load on ground anchor (kips)
FTL=Factored Test Load (kips)
LL=Lock-Off Load (kips)
fpu = Minimum ultimate tensile strength of ground anchor steel (ksi)
As (Min) = Minimum cross sectional area of steel in ground anchor. (square inch)
Steel = ASTM designation: A416 (HS Strands)
$$As (Min) = \frac{1.0 FTL}{0.75 fpu}$$

Steel= ASTM designation: A722 (HS Bars)
$$As (Min) = \frac{1.0 FTL}{0.80 fpu}$$

Steel= ASTM designation: A615 (Mild Steel Bars)
$$As (Min) = \frac{1.0 FTL}{0.90 fpu}$$

FDL= _____ Kips
FTL= _____ Kips
LL= _____ Kips

NOTES:

1. For details not shown, see "PROJECT PLANS"

- (A) Clean and paint Steel Soldier Pile from top of pile to 5 feet Min below bottom of lagging

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

REGISTERED CIVIL ENGINEER	DATE
X	X

PLANS APPROVAL DATE
X

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
No. X
Exp. X
CIVIL
STATE OF CALIFORNIA

STANDARD DRAWING

FILE NO. **xs12-070**

APPROVAL DATE July 2011

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF
ENGINEERING SERVICES

BRIDGE NO.
X
POST MILE
X

X
SOLDIER PILE WALL WITH GROUND ANCHORS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

0 1 2 3

UNIT: X
PROJECT NUMBER & PHASE: X

CONTRACT NO.: X

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES
SHEET X OF X

FILE => \$REQUEST

DATE PLOTTED => \$DATE
USERNAME => \$USER
TIME PLOTTED => \$TIME